Notice of Allowability    Application No.   Application No.   Application No.   10/629.439   TEWS ET AL.				lón
Notice of Allowability  Examiner  H.Jey Tsal  2812  The MAILING DATE of this communication appears on the cover sheet with the correspondence address—All claims being ellowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOTA GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. □ This communication is responsive to  2. □ The allowed claim(s) islare 12.22.  3. □ The drawings filed on 29 July 2003 are accepted by the Examiner.  4. □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All □ b) □ Some* c) □ None of the:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Cepies of the periority documents have been received in Application No  4. □ Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  (a) □ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) □ hereto or 2) □ to Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.4(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement helectic) should be blabeled as such in the header according to 37 CFR 1.12(c).  1. □ DEPOSIT OF and/or		Application No.	Applicant(s)	
H.Jey Tsal		10/629,439	TEWS ET AL.	
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Art Unit: 2812			Primary Examiner	

Art Unit: 2812

## Reasons For Allowance

The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The basis for the allowability is:

Prior art of record does not teache the combination of a first nitride/dielectric layer/second nitride stack formed in the trench, a recess large enough to place the collar oxide outside the trench, a trench shape that allows uniform LOCOS oxidation, a bird's beaks between the dielectric layer different from the nitride layer and the second nitride layer, the LOCOS oxide thickness being chosen to suppress vertical transistor region, doping bottle formation, a node dielectric layer, polyfill and poly recessing to crate a position of a LOCOS oxide, a trench top oxide and a buried strap.

None of the art of record teaches nor suggests to combine above cited limitations in the claimed invention as a whole.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry of a general nature or clerical matters or relating to the status of this application or proceeding should be directed to the customer service whose telephone number is (703) 308-4357.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. Jey Tsai whose telephone number is (571) 272-1684. The examiner can normally be reached on from 7:00 Am to 4:00 Pm., Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (571) 272-1679.

The fax phone number for this Group is (703) 872-9306.

hjt

H. Jey Tsai Primary Examiner Patent Examining Group 2800